| PE | | | • | | | | Sheet 1 c | 13 | | |
|---------------------|----------------|--|-------------------|---|---------------------------|----------------------|----------------------|----------|--|--|
| TO TO | | FORM PTO-1449 | | ATTY. DOCKET NO. 1-2-0032.3US | | SERIAL I 09/843,5 | | | | |
| 17700 2 | U.S. I Pate | DEPARTMENT OF COMMER ENT AND TRADEMARK OFFI | | | PLICANT d L. Schilling |) | | | | |
| ALCEN CO. | ••• | IFORMATION DISCLOSURE TATEMENT BY APPLICANT | ļ | FILING DATE April 27, 2001 | GROUP 2631 | | | | | |
| | (Us | se several sheets if necessary |) | | | | | | | |
| | | | U.S. PATENT | DOCUMENTS | | | | ** | | |
| EXAMINEF INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DA APPROPE | | | |
| | | | | | R | ECF | EI\/F | =[| | |
| | | | | | | AUG 3 | | | | |
| | | | | | Tech | nology | Cente | r 26 | | |
| | ļ | | | | | | | | | |
| | | | | | | | | | | |
| | <u> </u> | | | | | | | | | |
| | | | | | | | | | | |
| - | | | | | | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | FOREIGN PATE | NT DOCUMENTS | - | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | YES | NO NO | | |
| * El | •• | GB2229609 | 09/26/90 | Great Britain | | | | | | |
| W | 7 " | WO 91/07037 | 05/16/91 | PCT | | | | | | |
| 46 | " | WO 86/00486 | 01/06/1991 | PCT | | | | | | |
| | | OTHER DOCUMENT | TS (Including Aut | hor, Title, Date, Pertinent Paç | ges, Etc.) | | | | | |
| U | ** | | | fobile Phone Service: Control (Jan. 1979), Vol. 58, No. 1, p | | e@, The B | Bell syste | m | | |
| U | | | | read-Spectrum Communication 1982), Vol. Com. 30, No. 5; | | | ons on | | | |
| H | , " | | | ise and Conventional Modula search Development, Vol. 9, I | | | | le | | |
| | | EXAMINER | | DATE O | CONSIDERE | D . | | | | |

| 43 | | | | ** Rel | erence cited | | | /23/01 2 of 3 | | |
|---------------|------|---|-------------------|--|--------------|--------------------------|------------------|--------------------|-------|--|
| 2004 | | FORM PTO-1449 | | ATTY. DOCKET NO. I-2-0032.3US | | SERIAL 09/843,5 | | | | |
| 18.3.78.CB | | DEPARTMENT OF COMME ENT AND TRADEMARK OFF | | APPLICANT Donald L. Schilling | | | | | | |
| | (| NFORMATION DISCLOSURE STATEMENT BY APPLICANT | • | FILING DATE April 27, 2001 | | | | | | |
| | (U | lse several sheets if necessar | <u> </u> | DOCUMENTS | | | | | | |
| EXAMINER | | | 1 1 | DOODWIENTS | | 1 | [en av | DATE | | |
| INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | APPR | DATE IF OPRIATE | | |
| | | | | | | RE | CE | IV | ED | |
| | | | | | | AU | 53 | 0 200 | 4 | |
| | | | | | • | echnol | bgy | Cente | r 260 | |
| + | | | | | | <u> </u> | | | | |
| | | | | · | | | | | | |
| | | | | | _ | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| - | | | FOREIGN PATE | NT DOCUMENTS | | T | | | | |
| | | | | | | | - | SLATION | | |
| W/ | ** | EP0265178 | 04/27/88 | Europe | CLASS | SUBCLASS | YES | МО | | |
| 96 | ** | WO 91/15071 | 10/3/91 | PCT | | | | - | | |
| W | ** | EP0392079 | 10/17/90 | Europe | | | | | | |
| | | OTHER DOCUMEN | TS (Including Aut | hor, Title, Date, Pertinent Pa | ges, Etc.) | | | | | |
| 96 | ** | Salmasi; et al., On the Sys | stem Design Aspe | cts of Code Division Multiple orks" IEEE Vehicle Technolo pages 57-62. | Access (CD | OMA) Appli nce, 19-22 | ed to [Máy 1 | Digital 1991, | | |
| As. | · •• | Dixon, Robert C., Spread S | pectrum Systems | (John Wiley & Sons, Inc.: No | ew York, 3d | ed. 1994), | pp. 41 | 2-413. | | |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
| | |

The International Dictionary of Physics and Electronics (D. Van Nostrand Co.: Princeton, NJ, 2d ed. 1961), pp. 612, 952.



** Reference cited in IDS filed on 7/23/01

| 3 | Sheet 3 of 3 | | | | | | | | | | | |
|-------------|--|---|---|------|---------|--|--|--|--|--|--|--|
| 7 | SERIAL NO. 09/843,520 | ATTY. DOCKET NO. 1-2-0032.3US | FORM PTO-1449 | | 3 | | | | | | | |
| 1 | CANT Schilling | | PARTMENT OF COMMERCE T AND TRADEMARK OFFICE | PATE | - | | | | | | | |
| FIVE | GROURECE 2631 | FILING DATE April 27, 2001 | ORMATION DISCLOSURE ATEMENT BY APPLICANT | | | | | | | | | |
| 3 0 2004 | AUG 3 | | several sheets if necessary) | (Us | | | | | | | | |
| Jy Center 2 | , Etc.) Technology | thor, Title, Date, Pertinent Pages | OTHER DOCUMENTS (Including A | | | | | | | | | |
| | pectrum Cellular Mobile Radio ate University). | ence Management in a Spread-S d Ph.D. Dissertation, Michigan S | Alavi, Hossein, Power Control and Interfe System (1984) (Unpublished | •• | 74 | | | | | | | |
| | | | M.B. Pursley, Performance Evaluation for F Part I: System Analysis@, IEEE Tran | , •• |) Jk | | | | | | | |
| | J.M. Holtzman, A Simple, Accurate Method To Calculate Spread-Spectrum Multiple-Access Error Probabilities@, IEEE Transactions on Communications, Vol. 40, No. 3, March 1992. | | | | | | | | | | | |
| | Ormondroyd, R.F., Power Control for Spread-Spectrum Systems, @ Conference on Communications Equipment and Systems, 20-22, April 1982, pp. 109-115. | | | | | | | | | | | |
| | | on 7.1.3.1.7 and Fig. 7.1.3.1.7-2 | IS95, Sect | . ** | 7/ | | | | | | | |
| | | | | | | | | | | | | |
| | | | | ···· | - | | | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | 17 | | | | | | | | |
| 1 | | | , | | | | | | | | | |
| | · | | | | | | | | | | | |
| | , | | | | | | | | | | | |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
| L | |

OIPE OIPE

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. I-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | | C | ocui | MENT | NUME | ER | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|---|---|------|------|------|----|----|--------|----------------|-------|----------|-------------------------------|
| Fi | AA* | 3 | 8 | 3 | 1 | 0 | 1 | 3 | 8/74 | Alsup et al. | | | |
| Al | AB* | 3 | 8 | 3 | 8 | 3. | 4 | 2 | 9/74 | Bjorkman | | | |
| 4/ | AC* | 3 | 9 | 0 | 0 | 7 | 2 | 1 | 8/75 | Speiser et al. | | | -7 |
| 8 | AD* | 4 | 1 | 1 | 2 | 3 | 7 | 2 | 9/78 | Holmes et al. | | | JUL Bchrolog |
| 16 | AE* | 4 | 1 | 8 | 9 | 6 | 7 | 7 | 2/80 | Cooper et al. | | | JUL rolog |
| 9/ | AF* | 4 | 1 | 9 | 3 | 0 | 3 | 1 | 3/80 - | Cooper | | | ? 7 (Cer |
| W | AG* | 4 | 2 | 2 | 2 | 1 | 1 | 5 | 9/80 | Cooper et al. | | | 2001 oter 2 |
| 4 | AH* | 4 | 2 | 3 | 8 | 8 | 5 | .0 | 12/80 | Vance | | | 0)1 2600 |
| 1 | Al* | 4 | 2 | 4 | 7 | 9 | 4 | 2 | 1/81 | Hauer | | | |
| 46 | AJ* | 4 | 2 | 8 | 5 | 0 | 6 | 0 | 8/81 | Cobb et al. | | | |
| 4 | AK* | 4 | 3 | 9 | 2 | 2 | 3 | 2 | 7/83 | Andren et al. | | | |
| 1 | AL* | 4 | 4 | 1 | 8 | 3 | 9 | 3 | 11/83 | Zscheile, Jr. | | | |

FOREIGN PATENT DOCUMENTS

| | | | | | JENT. | | | | DATE | COUNTRY | 01.455 | CUIDO! ACO | | SLATION |
|-----|-----|---|---|---|-------|------|----|---|------|---------------|--------|------------|-----|---------|
| ٠. | | l | | _ | WENT | NUMB | en | | UATE | COUNTRY | CLASS | SUBCLASS | YES | NO |
| The | AM* | 2 | 2 | 2 | 9 | 6 | 0 | 9 | 9/90 | Great Britain | | | | |
| W | AN* | 9 | 1 | 0 | 7 | 0 | 3 | 7 | | PCT | | | | |

Ad

A

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| H | AO* | Fluhr, Z.C. and Porter, P.T., "Advanced Mobile Phone Service: Control Architecture", The Bell system Technical Journal (Jan. 1979), Vol. 58, No. 1, pp. 43-69. |
|---|-----|--|
| | | |

EXAMINER

DATE CONSIDERED

11/5/04

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. I-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | | C | ocui | MENT | NUMB | ER | | DATE | · NAME | CLASS | SUBCLASS | FILING DA | |
|---------------------|-----|---|---|------|------|------|----|---|-------|--------------------|-------|----------|-------------|--------|
| 43 | AP* | 4 | 4 | 1 | 8 | 4 | 2 | 5 | 11/83 | Fennel, Jr. et al. | | | | |
| 4 | AQ* | 4 | 4 | 2 | 5 | 6 | 4 | 2 | 1/84 | Moses et al. | | | | |
| 9 | AR* | 4 | 4 | 5 | 5 | 6 | 5 | 1 | 6/84 | Baran | | | | |
| 4 | AS* | 4 | 4 | 7 | 9 | 2 | 2 | 6 | 10/84 | Prabhu et al. | | | | |
| 9/ | AT* | 4 | 4 | 8 | 4 | 3 | 3 | 5 | 11/84 | Mosley et al. | _ | | Te | |
| 26 | AU* | 4 | 5 | 1 | 2 | 0 | 1 | 3 | 4/85 | Nash et al. | | | chnology | کے |
| 1 | AV* | 4 | 5 | 2 | 3 | 3 | 1 | 1 | 6/85 | Lee et al. | • | | logy | الـ كا |
| 9/1 | AW* | 4 | 5 | 3 | 8 | 2 | 8 | 0 | 8/85 | Mosley, Jr. et al. | | | | ~ |
| 1 | AX* | 4 | 5 | 5 | 3 | 1 | 3 | 0 | 11/85 | Kato | | | Center 2500 | 7001 |
| 4 | AY* | 4 | 5 | 6 | 3 | 7 | 7 | 4 | 1/86 | Gloge | | | 500 | |
| 8 | AZ* | 4 | 6 | 0 | 6 | 0 | 3 | 9 | 8/96 | Nicolas et al. | | | | |
| D | BA* | 4 | 6 | 1 | 2 | 6 | 3 | 7 | 9/86 | Davis et al. | | | | |

FOREIGN PATENT DOCUMENTS

| | | | _ | | | | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | | |
|-----|-----|---|---|-------|------|------|----|---|------|---------|-------|----------|-------------|----|--|
| | | | Ľ | KUCUN | MENT | NUMB | EH | | | | | | YES | NO | |
| 9,6 | BB* | 8 | 6 | 0 | 0 | 4 | 8 | 6 | | PCT | | | | | |
| Us | BC* | 0 | 2 | 6 | 5 | 1 | 7 | 8 | 4/88 | Europe | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| BD* | DeGaudenzi, R. and Viola, R., "A Novel Code Division Multiple Access System for High Capacity Mobile Communications Satellites", ESA Journal (1989), Vol. 13, pp. 303-322. |
|---------|--|
| BE* | Stiffler, J.J., Theory of Synchronous Communications (Prentice-Hall, Inc., New |
| | Jersey), table of contents listing. |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

OIPE COLUMN TO THE PROPERTY OF THE PROPERTY OF

FORM PTO-1449

J.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. I-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | | | XOCUI | MENT | NUMB | ER | | DATE | NAME | CLASS | SUBCLASS | FILING DA | |
|---------------------|-----|---|---|-------|------|------|----|---|--------|---------------------|-------|----------|-----------|---------------|
| 8 | BF* | 4 | 6 | 2 | 1 | 3 | 6 | 5 | 11/86 | Chiu | | | | |
| At. | BG* | 4 | 6 | 3 | 9 | 9 | 1 | 4 | 1/87 | Winters | | | | |
| U | вн* | 4 | 6 | 4 | 1 | 3 | 2 | 2 | 2/87 ~ | Hasegawa | | | | |
| 45 | BI* | 4 | 6 | 4 | 7 | 8 | 6 | 3 | 3/87 | Skudera, Jr. et al. | | | | |
| 4 | BJ* | 4 | 6 | 4 | 9 | 5 | 4 | 9 | 3/87 | Halpern et al. | | | ech | • |
| 4 | BK* | 4 | 6 | 5 | 3 | 0 | 6 | 9 | 3/87 | Roeder | | | nology | F |
| 4 | BL* | 4 | 6 | 6 | 0 | 1 | 6 | 4 | 4/87 | Leibowitz | | | уСе | 2 7 |
| El | ВМ* | 4 | 6 | 7 | 2 | 6 | 0 | 5 | 6/87 | Hustig et al. | | | Center | 70 d 1 |
| W | BN⁺ | 4 | 6 | 7 | 2 | 6 | 2 | 9 | 6/87 | Beier | | | 2600 | = |
| a | во⁺ | 4 | 6 | 7 | 2 | 6 | 5 | 8 | 6/87 | Kavehrad et al. | | | | |
| 4 | ВР* | 4 | 6 | 7 | 5 | 8 | 3 | 9 | 6/87 | Kerr | | | | |
| 4 | BQ* | 4 | 6 | 8 | 0 | 7 | 8 | 5 | 7/87 | Akiyama et al. | | | | |

FOREIGN PATENT DOCUMENTS

| | | | | ·^~!! | MENT | NII 18 413 | CD | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|-----|---|---|-------|-------|------------|-----------|----|-------|---------|-------|----------|-------------|----|
| | | | | | MEIAI | NUME | en - | | DATE | COUNTRY | CDGS | | YES | NO |
| 96 | BR* | 9 | 1 | 1 | 5 | 0 | 7 | 1 | 10/91 | PCT | | | | |
| 96 | BS* | 0 | 3 | 9 | 2 | 0 | 79 | A2 | 10/90 | EPO | | | · | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| 96 | BT* | | Scholtz, Robert A., "The Origins of Spread-Spectrum Communications", IEEE Transactions on Communications (May 1982), Vol. Com. 30, No. 5; pp. 822-855. |
|----|-----|---|--|
| | BU* | | Nettleton, Raymond W., Spectral Efficiency in Cellular Land-Mobile |
| | | 厂 | Communications: A Spread-Spectrum Approach (1978) (unpublished Ph.D. Dissertation, Purdue University. |

EXAMINER

DATE CONSIDERED // (T/O)

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED



U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. 1-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | | | OCUI | MENT | NUMB | ER | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|---|---|------|------|------|----|----|-------|-----------------|-------|----------|-------------------------------|
| 8 | BV* | 4 | 6 | 9 | 1 | 3 | 2 | 6 | 9/87 | Tsuchiya | | | |
| 91 | BW* | 4 | 6 | 9 | 7 | 2 | 6 | 0 | 9/87 | Grauel et al. | | | |
| 91 | BX* | 4 | 7 | 0 | 3 | 4 | 7 | 4 | 10/87 | Foschini et al. | | | |
| 4 | BY* | 4 | 7 | 0 | 7 | 8 | 3 | 9 | 11/87 | Andren et al. | | | |
| W. | BZ* | 4 | 7 | 1 | 8 | 0 | 8 | 0 | 1/88 | Serrano et al. | | | 76 |
| 4 | CA⁺ | 4 | 7 | 3 | 0 | 3 | 4 | 0 | 3/88 | Frazier, Jr. | | | JUL 2 Technology |
| | CB* | 4 | 7 | 4 | 2 | 5 | - | 2 | 5/88 | Akashi et al. | | | JL 2 logy |
| | CC* | 4 | 7 | 5 | 5 | 9 | 8 | 3 | 7/88 | Masak et al. | | | 7 Сел |
| 4 | CD* | 4 | 7 | 5 | 9 | 0 | 3 | 4 | 7/88 | Nagazumi | | | 7 2001 Center 2500 |
| W | CE* | 4 | 7 | 7 | 5 | 9 | 9 | 5 | 10/88 | Chapman et al. | | | 000 |
| 4 | CF* | 4 | 7 | 8 | 9 | 9 | 8 | 3 | 12/88 | Acampora et al. | | | |
| 9 | CG* | 4 | 7 | 9 | 9 | 2 | 5 | .3 | 1/89 | Stern et al. | | | |

FOREIGN PATENT DOCUMENTS

| | | OCUL | JENT | NI IMP | FR. | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | | | | | |
|--|-----------------|------|------|--------|-----|------|------|---------|-------|----------|-------------|----------|-----|----|--|--|
| | DOCUMENT NUMBER | | | | | DATE | | | | | CDASS | SUBCEASS | YES | NO | | |
| | | | | | | | | | | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | CH* | Cooper, George R. and Nettleten, Ray, W., "Cellular Mobile Technology: The Great Multiplier," IEEE Spectrum, June 1983, pp. 30-37. | |
|----|-----|--|---|
| H | CI* | Blasbalg, H., "A Comparison of Pseudo-Noise and Conventional Modulation for Multiple-Access Satellite Communications," IBM Journal of Research Development, Vol. 9, No. 4, Jul. 1965, pp. 241-255. | |
| 96 | ည် | Salmas; et al., "On the System Design Aspects of Code Division Multiple Access (CDMA) Applied to Digital Cellular and Personal Communication Networks" IEEE Vehicle Technology Conference, 19-22 May 1991, pages 57-62 | f |

EXAMINER

DATE CONSIDERED

11/0/67

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

KECEIVED

| Sheet | _5_ | of | _8_ |
|-------|-----|----|-----|
|-------|-----|----|-----|

OIPE 3 2001 CO

FORM PTO-1449

.S. DEPARTMENT OF COMMERCE ATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. I-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | ER | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
|------------------|------|-----------------|---|---|---|----|---|------|-----------------|--------------------|----------|-------------------------------|--------------------|
| T | CK* | 4 | 8 | 0 | 5 | 2 | 0 | 8 | 2/89 | Schwartz | | | |
| 91 | CL* | 4 | 8 | 0 | 7 | 2 | 2 | 2 | 2/89 | Amitay | | | |
| 40 | См⁺ | 4 | 8 | 1 | 1 | 4 | 2 | 1 | - 3/89 . | Havel et al. | 7. | | |
| 4 | CN* | 4 | 8 | 3 | 7 | 8 | 0 | 2 | 6/89 | Higashiyama et al. | | | = |
| 91 | CO* | 4 | 8 | 4 | 3 | 6 | 1 | 2 | 6/89 | Brusch et al. | | | Techn |
| 4 | CP* | 4 | 8 | 5 | 0 | 0 | 3 | 6 | 7/89 | Smith | | | ology 2 |
| W | CQ* | 4 | 8 | 6 | 0 | 3 | 0 | 7 | 8/89 | Nakayama | | | ලී ~ |
| W | CR* | 4 | 8 | 6 | 6 | 7 | 3 | 2 | 9/89 | Carey et al. | | | 7 200 Center 2 |
| | CS* | 4 | 8 | 9 | 4 | 8 | 4 | 2 | 1/90 | Broekhoven et al. | | | 600 |
| 8 | CT* | 4 | 8 | 9 | 9 | 3 | 6 | 4 | 2/90 | Akazawa et al. | | | |
| 18 | CU* | 4 | 9 | 0 | 1 | 3 | 0 | 7 | 2/90 | Gilhousen et al. | | | |
| 6 | -CV* | 4 | 9 | 1 | 4 | 6 | 5 | 1 | 4/90 | Lusignan | | | |

FOREIGN PATENT DOCUMENTS

| | DOGUNAÇAY ANIMOS D | | | | | | | | . DATE | COUNTRY | | 011001 400 | TRANSLATION | | |
|--|--------------------|-----------------|--|--|--|--|--|-----|--------|---------|---------|------------|-------------|-----|----|
| | | DOCUMENT NUMBER | | | | | | . ' | | | COUNTRY | CLASS | SUBCLASS | YES | NO |
| | | | | | | | | | | Ī | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| al cw. | Dixon, Robert C., Spread Spectrum Systems (John Wiley & Sons, Inc.: New York, 3d ed. 1994), pp. 412-413. |
|--------|--|
| 96 cx. | The International Dictionary of Physics and Electronics (D. Van Nostrand Co.: Princeton, NJ, 2d ed. 1961), pp. 612, 952. |

EXAMINER

DATE CONSIDERED ///

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

CEIVE

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. I-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | | | ocui | MENT | NUMB | ER | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|---|---|------|------|----------|----|---|-------|--------------------|-------|----------|-------------------------------|
| 9/ | CY* | 4 | 9 | 2 | 2 | 5 | 0 | 6 | 5/90 | McCallister et al. | | | |
| 9 | CZ* | 4 | 9 | 3 | 0 | 1 | 4 | Ō | 5/90 | Cripps et al. | | | |
| 9/ | DA* | 4 | 9 | 3 | 2 | 0 | 3 | 7 | 6/90 | Simpson et al. | | | |
| Th | DB* | 4 | 9 | 5 | 8 | 3 | 5 | 9 | 9/90 | Kato | | | |
| 4 | DC* | 4 | 9 | 6 | 9 | 1 | 5 | 9 | 11/90 | Belcher et al. | | | echnology |
| 9/ | DD* | 4 | 9 | 7 | 7 | 5 | 7 | 7 | 12/90 | Arthur et al. | | | JUL |
| 4 | DE* | 4 | 9 | 7 | 7 | 5 | 7 | 8 | 12/90 | lshigaki et al. | | | Σ ~ |
| W | DF* | 4 | 9 | 9 | 1 | 1 | 6 | 4 | 2/91 | Casiraghi et al. | | | 20 nter |
| 8 | DG* | 4 | 9 | 9 | 3 | 0 | 2 | 1 | 2/91 | Nannicini et al. | | |)1 2600 |
| 1 | DH* | 5 | 0 | 0 | 5 | - | 6 | 9 | 4/91 | Bronder et al. | | | |
| 76 | DI* | 5 | 0 | 1 | 6 | 2 | 5 | 5 | 5/91 | Dixon et al. | , | | |
| 7/ | DJ. | 5 | 0 | 1 | 6 | 2 | 5 | 6 | 5/91 | Stewart | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | | LATION |
|--|-----------------|------|---------|-------|----------|-----|--------|
| | DOGGREST TOMBET | | 3331111 | 0000 | 000000 | YES | NO |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | ĎK* | Robinson, Vester, Solid-State Circuit Analysis (Reston Publishing Co.: Reston, VA, |
|----|-----|---|
| | | 1975), pp. 309-314. |
| | , | |
| 46 | DL* | Alavi, Hossein, Power Control and Interference Management in a Spread-Spectrum Cellular Mobile Radio System (1984) (Unpublished Ph.D. Dissertation, Michigan State University). |
| | | 4 |

EXAMINER

DATE CONSIDERED

11/0/107

EXAMINER: Initial if cifation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

HECEIVE

7

A

| OIPE | \ U |
|--------------|-------|
| JUL 2 3 2001 | C26 4 |
| Ranguary of | S) |

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. I-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001 GROUP 2631

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | | DOCUMENT NUMBER | | | | | . | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|---|-----------------|---|---|---|---|--------------|--------|------------------|-------|----------|-------------------------------|
| B | DM* | 5 | 0 | 2 | 2 | 0 | 4 | 7 | 6/91 | Dixon et al. | | | |
| 1 | DN* | 5 | 0 | 2 | 3 | 8 | 8 | 7 | 6/91 | Takeuchi et al. | | | |
| 4 | DO* | 5 | 0 | 2 | 9 | 1 | 8 | 1 | 7/91 | Endo et al. | | | |
| 41 | DP* | 5 | 0 | 4 | 0 | 2 | 3 | 8 | 8/91 | Comroe et al. | | | 7 |
| 4 | DQ* | 5 | 0 | 4 | 8 | 0 | 5 | 2 | 9/91 | Hamatsu et al. | | | Jt |
| 16 | DR* | 5 | 0 | 5 | 6 | 1 | 0 | 9 | 10/91 | Gilhousen et al. | | | JUL 2 chnology |
| 9/ | DS* | 5 | 0 | 7 | 3 | 9 | 0 | 0 | 12/91 | Mallinckrodt | | | 7 / Cen |
| 1 | DT* | 5 | 0 | 8 | 6 | 5 | 0 | 8 | 2/92 | Furuno | | | 7 7001 Center 2600 |
| 2 | DU* | 5 | 0 | 9 | 3 | 8 | 4 | 0 | - 3/92 | Schilling | | | 000 |
| -K | DV* | 5 | 1 | 0 | 1 | 5 | 0 | 1 | 3/92 | Gilhousen et al. | | | |
| 96 | DW* | 5 | 1 | 0 | 3 | 4 | 5 | 9 | 4/92 | Gilhousen et al. | | | |
| 1 | DX* | 5 | 1 | 0 | 9 | 3 | 9 | 0 | 4/92 | Gilhousen et al. | | | |
| U | DY⁺ | 5 | 1 | 2 | 9 | 0 | 9 | 8 | 7/92 | McGirr et al. | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | | |
|--|-----------------|------|---------|-------|----------|-------------|----|--|
| | | DATE | COUNTIT | | | YES | NO | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| 9b | DZ* | M.B. Pursley, "Performance Evaluation for Phase-Coded Spread-Spectrum Multiple- Access Communication - Part I: System Analysis", IEEE Transactions on Communications, Com-25, No. 8, August, 1997. |
|-------------|-----|--|
| U° | | - |

J.M. Holtzman, "A Simple, Accurate Method To Calculate Spread-Spectrum Multiple-Access Error Probabilities", IEEE Transactions on Communications, Vol. 40, No. 3, March 1992.

EXAMINER

DATE CONSIDERED

11/5/07

| FORM | PTO-1 | 449 |
|---------------|-------|-----|
| FUNIVI | L IO. | 443 |

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. 1-2-32.3US

SERIAL NO. 09/843,520

APPLICANT Donald L. Schilling

FILING DATE April 27, 2001

GROUP 2631

U.S. PATENT DOCUMENTS

| | | | | | | | _ | | • | | • | | _ | | |
|---------------------|--------------------------------|---|--|------|------------|------------------|-----|-------|---|--|-----------------------|----------------------|-----------------------|------------|------------|
| EXAMINER INITIAL | | | C | OCUI | MENT | NUMB | ER | | DATE | NAME | CLASS | SUBCLASS | FILING D | | |
| 2 | EB* | 5 | 2 5 7 2 8 3 | | 10/93 | Gilhousen et al. | | | • | | | | | | |
| 8 | EC* | 5 | 2 | 6 | 5 | 1 | 1 | 9 | 11/93 | Gilhousen et al. | | | | | |
| 7 | ED* | 5 | 2 | 6 | 7 | 2 | 6 | 2 | 11/93 | Wheatley III | | | Te | | |
| 95 | EF* | 5 | 2 | 9 | 9 | 2 | 2 | 6 | 3/94 | Schilling | | | echndlogy Center 2600 | ک | RE |
| En | EG* | 5 | 3 | 3 | 9 | 3 | 3 | 0 | 8/94 | Mallinckrodt | | | logy | <u>ر ٪</u> | RECEIVED |
| 9 | EH* | 5 | 3 | 8 | 6 | 5 | 8 | 8 | 1/95 | Yasuda | | | Cent | 2 7 7001 | 3 |
| 2 | EI* | 5 | 3 | 9 | 6 | 5 | 1 | 6 | 3/95 | Padovani et al. | | | er 2 | 001 | D |
| | | | | | | | | | | | | | 8 | | |
| | | _ | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | | L | | | | · | | | <u> </u> | | |
| | | | | | | F | OF | REIG | GN PATE | NT DOCUMENTS | | | | | |
| | | | DOCUMENT NUMBER | | | | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSL | | |
| | | | | | | | | | · | | | | YES | NO | |
| | OTUE | | DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | | | | |
| | | H | | | | | | | | | | | | | |
| 91 | EJ* | | ľ | | | | | | | itrol for Spread-Spectrum and Systems, 20-22, Ap | | | | on | A |
| 16 | | | | | | | | | | | | | | | |
| | EK* | | | M | unda | ay & | Pin | che | s, "Jaguar- | V Frequency-Hopping Rac | lio Syste | m," 8049 | IEEE | | 7 |
| | | | <u> </u> | roce | <u>edi</u> | ngs | Sec | ction | 1 A-B, Vol. 1 | 29 (1982), June, No. 3, Page Great Britain | art F , Ok | J Wokin (| , Surr | өу, | |
| | | Г | | | | | | | | | | | | | |
| 11- | EL* | Г | | | | • | | | IS95, Section | on 7.1.3.1.7 and Fig. 7.1.3 | 1.7-2 | | | | A . |
| 95 | | Г | | | | | | | | | | <u> </u> | | | |
| EXAN | EXAMINER DATE CONSIDERED 11/04 | | | | | | | | | | | | | | |